

Amendments to the Claims

Please amend the claims as follows:

Claim 1 (currently amended)

1. A system for ~~controlling~~commanding at least one ~~selected~~ motion control device ~~selected from a group of supported motion control devices~~, comprising:

a set of motion operations;

~~an application program~~a software system comprising a ~~series~~set of component function calls, where the ~~application program defines steps for operating motion control devices in a desired manner~~software system is capable of directing at least one motion control device to perform at least one motion operation;

a set of software drivers, where ~~each~~at least one software driver is selectable and associated with at least one motion control device ~~in the group of supported motion control devices and a selected software driver is associated with at least one selected motion control device;~~

a selection component for ~~identifying~~selecting at least one ~~selected~~selectable software driver from the set of software drivers, where the at least one ~~selected~~selectable software driver is associated with the at least one ~~selected~~ motion control device; and

a motion control component for ~~communicating with~~commanding the at least one ~~selected~~ motion control device based on the at least one ~~selected~~selectable software driver and the component functions called by the ~~application program~~software system such that the at least one motion control device ~~moves in a desired manner~~performs at least one motion operation.

Claim 2 (currently amended)

2. A system as recited in claim 1, in which the selection component comprises a user interface that allows a user to ~~identify~~select the at least one ~~selected~~selectable software driver.

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Claim 3 (currently amended)

3. A system as recited in claim 1, in which the selection component comprises a selection interface that allows the at least one ~~selected~~ selectable software driver to be ~~identified~~ selected programmatically.

Claim 4 (currently amended)

4. A system as recited in claim 1, in which at least one motion operation is capable of causing data to be sent to at least one motion control device and at least one motion operation is capable of causing data to be received from at least one motion control device ~~the motion control component sends data to and receives data from the at least one selected motion control device.~~

Claim 5 (currently amended)

5. A system as recited in claim 1, in which at least one motion operation is capable of being used to monitor at least one motion control device and at least one motion operation is capable of causing the motion control device to be configured ~~the motion control component controls, monitors, and configures the at least one selected motion control device.~~

Claim 6 (currently amended)

6. A system as recited in claim 1, in which ~~each~~ at least one of the software drivers in the set of software drivers conforms to a common driver interface.

Claim 7 (currently amended)

7. A system as recited in claim 6, in which the common driver interface comprises a set of component functions that are exposed to the motion control component by ~~each~~ at least one of the software drivers.

Claim 8 (original)

8. A system as recited in claim 6, in which the motion control component communicates with the at least one motion control device through the common driver interface of the software driver associated with the at least one motion control device.

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Claim 9 (currently amended)

9. A system as recited in claim 6, in which the ~~application program~~software system communicates with the motion control component.

Claim 10 (currently amended)

10. A system for ~~controlling~~commanding at least one ~~selected~~ motion control device-~~selected from a group of supported motion control devices~~, comprising:

a set of motion operations;

a set of software drivers, where ~~each at least one~~ software driver is selectable and associated with at least one motion control device ~~in the group of supported motion control devices and a selected software driver is associated with at least one selected motion control device;~~

a selection component for ~~identifying~~selecting at least one ~~selected~~selectable software driver from the set of software drivers; and

a software system for calling a ~~series~~set of component function calls to ~~control~~command the at least one ~~selected~~ motion control device associated with the at least one ~~selected~~selectable software driver based on the at least one selected software driver such that ~~the at least one motion control device moves in a desired manner~~performs at least one motion operation.

Claim 11 (currently amended)

11. A system as recited in claim 10, in which the selection component comprises a user interface that allows a user to ~~identify~~select the at least one ~~selected~~selectable software driver.

Claim 12 (currently amended)

12. A system as recited in claim 10, in which the selection component comprises a selection interface that allows the at least one ~~selected~~selectable software driver to be ~~identified~~selected programmatically.

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Claim 13 (currently amended)

13. A system as recited in claim 10, in which at least one motion operation is capable of causing data to be sent to at least one motion control device and at least one motion operation is capable of causing data to be received from at least one motion control device~~the software system sends data to and receives data from the at least one selected motion control device.~~

Claim 14 (currently amended)

14. A system as recited in claim 10, in which at least one motion operation is capable of being used to monitor at least one motion control device and at least one motion operation is capable of causing the motion control device to be configured~~the software system controls, monitors, and configures the at least one selected motion control device.~~

Claim 15 (currently amended)

15. A system as recited in claim 10, in which ~~each~~ at least one of the software drivers in the set of software drivers conforms to a common driver interface.

Claim 16 (currently amended)

16. A system as recited in claim 15, in which the common driver interface comprises a set of component functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 17 (original)

17. A system as recited in claim 15, in which the software system communicates with the at least one motion control device through the common driver interface of the software driver associated with the at least one motion control device.

Claim 18 (currently amended)

18. A system for ~~controlling-commanding~~ at least one selected motion control device~~selected from a group of supported motion control devices, comprising:~~
a set of motion operations;

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a set of software drivers, where ~~each~~ at least one software driver is selectable and associated with at least one motion control device ~~in the group of supported motion control devices and a selected software driver is associated with at least one selected motion control device~~; and

a software system for ~~identifying~~ selecting at least one ~~selected~~ selectable software driver from the set of software drivers and calling a ~~series~~ set of component function calls to ~~control~~ command the at least one ~~selected~~ motion control device associated with the at least one ~~selected~~ selectable software driver based on the at least one selected software driver such that ~~the~~ at least one motion control device ~~moves in a desired manner~~ performs at least one motion operation.

Claim 19 (currently amended)

19. A system as recited in claim 18, in which the software system comprises a user interface that allows a user to ~~identify~~ select the at least one ~~selected~~ selectable software driver.

Claim 20 (currently amended)

20. A system as recited in claim 18, in which the software system comprises a selection interface that allows the at least one ~~selected~~ selectable software driver to be ~~identified~~ selected programmatically.

Claim 21 (currently amended)

21. A system as recited in claim 18, in which at lease one motion operation is capable of causing data to be sent to at least one motion control device and at least one motion operation is capable of causing data to be received from at least one motion control device ~~the software system sends data to and receives data from the at least one selected motion control device~~.

Claim 22 (currently amended)

22. A system as recited in claim 18, in which at least one motion operation is capable of being used to monitor at least one motion control device and at least one motion operation is capable of causing the motion control device to be configured ~~the motion control component controls, monitors, and configures the at least one selected motion control device~~.

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Claim 23 (currently amended)

23. A system as recited in claim 18, in which ~~each~~ at least one of the software drivers in the set of software drivers conforms to a common driver interface.

Claim 24 (currently amended)

24. A system as recited in claim 23, in which the common driver interface comprises a set of component functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 25 (original)

25. A system as recited in claim 23, in which the software system communicates with the at least one motion control device through the common driver interface of the software driver associated with the at least one motion control device.

Claim 26 (currently amended)

26. A system for ~~controlling~~ commanding at least one ~~selected~~ motion control device-
~~selected from a group of supported motion control devices~~, comprising:

a set of motion operations;

an application program comprising a ~~series~~ set of component function calls, where ~~the application program defines steps for operating motion control devices in a desired manner~~ the application program is capable of directing at least one motion control device to perform at least one motion operation;

a set of software drivers, where ~~each~~ at least one software driver is selectable and associated with at least one motion control device ~~in the group of supported motion control devices and a selected software driver is associated with at least one selected motion control device;~~

a software system for ~~identifying~~ selecting at least one ~~selected~~ selectable software driver from the set of software drivers and ~~controlling~~ commanding at least one ~~selected~~ motion control device associated with the at least one ~~selected~~ selectable software driver based on the at least one ~~selected~~ selectable software driver and the component functions called by the application program.

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Claim 27 (currently amended)

27. A system as recited in claim 26, in which the software system comprises a user interface that allows a user to ~~identify-select~~ the at least one ~~selected-selectable~~ software driver.

Claim 28 (currently amended)

28. A system as recited in claim 26, in which the software system comprises a selection interface that allows the at least one ~~selected-selectable~~ software driver to be ~~identified-selected~~ programmatically.

Claim 29 (currently amended)

29. A system as recited in claim 26, in which ~~the software system sends data to and receives data from the at least one selected motion control device~~ at least one motion operation is capable of causing data to be sent to at least one motion control device and at least one motion operation is capable of causing data to be received from at least one motion control device.

Claim 30 (currently amended)

30. A system as recited in claim 26, in which at least one motion operation is capable of being used to monitor at least one motion control device and at least one motion operation is capable of causing the motion control device to be configured ~~the motion control component controls, monitors, and configures the at least one selected motion control device.~~

Claim 31 (currently amended)

31. A system as recited in claim 26, in which ~~each~~ at least one of the software drivers in the set of software drivers conforms to a common driver interface.

Claim 32 (currently amended)

32. A system as recited in claim ~~26~~ 31, in which the common driver interface comprises a set of component functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 33 (currently amended)

33. A system as recited in claim ~~26~~31, in which the software system communicates with the at least one motion control device through the common driver interface of the software driver associated with ~~the~~ at least one motion control device.

Claim 34 (currently amended)

34. A system as recited in claim ~~26~~31, in which the application program communicates with the at least one motion control device through the common driver interface of the software driver associated with ~~the~~ at least one motion control device.

Claim 35 (currently amended)

35. A system for communicating with a motion control device, comprising:
a set of motion operations;
~~an application program~~ a software system comprising a ~~series~~ set of function calls,
wherein the ~~application program~~ software system is ~~configured to operate the~~
~~motion control device in a desired manner~~ capable of directing at least one
motion control device to perform at least one motion operation;
a software driver associated with the motion control device; and
motion software for ~~communicating with~~ commanding the motion control device based
on the software driver and the functions called by the application program such
that the motion control device ~~moves in the desired manner~~ performs at least one
motion operation.

Claim 36 (currently amended)

36. The system of claim 35, wherein the ~~application program~~ software system communicates with the motion software.

Claim 37 (currently amended)

37. The system of claim 35, comprising a ~~plurality~~ set of software drivers associated with ~~the~~ at least one motion control device, wherein at least one software driver is associated with ~~the~~ at least one motion control device.

Claim 38 (currently amended)

38. The system of claim 37, wherein each of the ~~plurality~~set of software drivers conforms to a common driver interface.

Claim 39 (original)

39. The system of claim 38, wherein the common driver interface comprises a set of functions that are exposed to the motion software.

Claim 40 (currently amended)

40. The system of claim 38, wherein the motion software communicates with the motion control device through the common driver interface of the at least one software driver associated with ~~the~~at least one motion control device.

Claim 41 (currently amended)

41. The system of claim 37, comprising a selector for ~~identifying~~selecting the at least one software driver associated with the at least one motion control device from the ~~plurality~~set of software drivers.

Claim 42 (currently amended)

42. The system of claim 41, wherein the selector comprises a user interface that allows a user to ~~identify~~select the at least one software driver associated with the motion control device.

Claim 43 (currently amended)

43. The system of claim 41, wherein the selector comprises a selection interface that allows the at least one software driver associated with the motion control device to be ~~identified~~selected programmatically.

Claim 44 (currently amended)

44. The system of claim 35, wherein at least one motion operation is capable of causing motion data to be sent to at least one ~~the motion software sends data to the at least one selected motion control device.~~

Claim 45 (currently amended)

45. The system of claim 35, wherein ~~the motion software receives data from the at least one selected~~ at least one motion operation is capable of causing motion data to be received from at least one motion control device.

Claim 46 (currently amended)

46. The system of claim 35, wherein at least one motion operation is capable of causing at least one motion control device to be controlled ~~the motion software controls the at least one selected motion control device.~~

Claim 47 (currently amended)

47. The system of claim 35, wherein at least one motion operation is capable of being used to monitor the motion control device ~~the motion software monitors the at least one selected motion control device.~~

Claim 48 (currently amended)

48. The system of claim 35, wherein at least one motion operation is capable of causing at least one motion control device to be configured ~~the motion software configures the at least one selected motion control device.~~

Claim 49 (currently amended)

49. A system for communicating with a motion control device ~~selected from a group of motion control devices~~, comprising:
a set of motion operations;

~~an application program~~ a software system comprising a ~~series~~ set of function calls,
wherein the ~~application program~~ software system is configured to operate the
~~selected motion control device in a desired manner~~ capable of direction at least
one motion control device to perform at least one motion operation;
a plurality of software drivers ~~associated with the group of motion control devices,~~
wherein at least one software driver is associated with the ~~selected~~ at least one
motion control device;
a selector for ~~identifying~~ selecting from the plurality of software drivers the at least one
software driver associated with the ~~selected~~ at least one motion control device;
and
motion software for communicating with the selected motion control device based on the
~~identified~~ selected software driver and the functions called by the application
program.

Claim 50 (currently amended)

50. The system of claim 49, wherein at least one motion operation is capable of
causing the motion control device to move in a desired manner ~~the application program~~
~~communicates with the selected motion control device such that the motion control device~~
~~moves in the desired manner.~~

Claim 51 (currently amended)

51. The system of claim 49, wherein the ~~application program~~ software system
communicates with the motion software.

Claim 52 (currently amended)

52. The system of claim 49, wherein ~~each~~ at least one of the plurality of software
drivers conforms to a common driver interface.

Claim 53 (original)

53. The system of claim 52, wherein the common driver interface comprises a set of
functions that are exposed to the motion software by each of the software drivers.

Claim 54 (original)

54. The system of claim 52, wherein the motion software communicates with the at least one motion control device through the common driver interface of the software driver associated with the at least one motion control device.

Claim 55 (currently amended)

55. The system of claim 49, wherein the selector comprises a user interface that allows a user to ~~identify-select~~ the at least one software driver associated with the motion control device.

Claim 56 (currently amended)

56. The system of claim 49, wherein the selector comprises a selection interface that allows the at least one software driver associated with the motion control device to be ~~identified-selected~~ programmatically.

Claim 57 (currently amended)

57. The system of claim 49, wherein at least one motion operation is capable of causing motion data to be sent to ~~the motion software sends data to the~~ at least one selected motion control device.

Claim 58 (currently amended)

58. The system of claim 49, wherein at least one motion operation is capable of causing data to be received ~~the motion software receives data from the~~ at least one selected motion control device.

Claim 59 (currently amended)

59. The system of claim 49, wherein at least one motion operation is capable of causing at least one motion control device to be controlled ~~the motion software controls the at least one selected motion control device.~~

Claim 60 (currently amended)

60. The system of claim 49, wherein at least one motion operation is capable of being used to monitor at least one motion control device~~the motion software monitors the at least one selected motion control device.~~

Claim 61 (currently amended)

61. The system of claim 49, wherein at least one motion operation is capable of causing at least one motion control device to be configured~~the motion software configures the at least one selected motion control device.~~

Claim 62 (currently amended)

62. A system for communicating with a motion control device ~~selected from a group of motion control devices~~, comprising:

a plurality of software drivers ~~associated with the group of motion control devices~~, wherein at least one software driver is associated with ~~the selected~~ at least one motion control device;

a selector for ~~identifying~~ selecting the at least one software driver associated with the ~~selected~~ at least one motion control device from the plurality of software drivers; and

a software system for ~~communicating with the selected~~ commanding at least one motion control device based on the at least one ~~identified~~ selected software driver associated with at least one ~~the selected~~ motion control device.

Claim 63 (currently amended)

63. The system of claim 62, wherein the software system ~~communicates with the selected~~ commands at least one motion control device such that the selected motion control device moves in a desired manner.

Claim 64 (currently amended)

64. The system of claim 62, wherein ~~each~~ at least one of the plurality of software drivers conforms to a common driver interface.

Claim 65 (currently amended)

65. The system of claim 64, wherein the common driver interface comprises a set of functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 66 (original)

66. The system of claim 64, wherein the software system communicates with the selected motion control device through the common driver interface of the software driver associated with the selected motion control device.

Claim 67 (currently amended)

67. The system of claim 62, wherein the selector comprises a user interface that allows a user to ~~identify~~ select the at least one software driver associated with ~~the~~ at least one motion control device.

Claim 68 (currently amended)

68. The system of claim 62, wherein the selector comprises a selection interface that allows the at least one software driver associated with ~~the~~ at least one motion control device to be ~~identified~~ selected programmatically.

Claim 69 (currently amended)

69. The system of claim 62, wherein at least one software driver is capable of causing motion data to be sent to the software system ~~sends data to the~~ at least one selected motion control device.

Claim 70 (currently amended)

70. The system of claim 62, wherein at least one software driver is capable of causing data to be received from the software system receives data from the at least one ~~selected~~ motion control device.

Claim 71 (currently amended)

71. The system of claim 62, wherein at least one software driver is capable of causing at least one motion control device to be controlled the software system controls the at least one selected motion control device.

Claim 72 (currently amended)

72. The system of claim 62, wherein at least one software driver is capable of being used to monitor at least one motion control device the software system monitors the at least one selected motion control device.

Claim 73 (currently amended)

73. The system of claim 62, wherein at least one software driver is capable of causing at least one motion control device to be configured the software system configures the at least one selected motion control device.

Claim 74 (currently amended)

74. A system for communicating with a motion control device selected from a group of motion control devices, comprising:

- a plurality of software drivers ~~associated with the group of motion control devices,~~
wherein at least one software driver is associated with ~~the selected~~ at least one motion control device; and
- a software system for ~~identifying-selecting~~ the at least one software driver associated with ~~the selected~~ at least one motion control device from the plurality of software drivers and communicating with the selected motion control device based on the

at least one ~~identified~~selected software driver associated with the ~~selected~~ motion control device.

Claim 75 (currently amended)

75. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that at least one associated motion control devices moves in a desired manner. ~~communicates with the selected motion control device such that the selected motion control device moves in a desired manner.~~

Claim 76 (original)

76. The system of claim 74, wherein each of the plurality of software drivers conforms to a common driver interface.

Claim 77 (currently amended)

77. The system of claim 76, wherein the common driver interface comprises a set of functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 78 (currently amended)

78. The system of claim 76, wherein the software system is capable of communicating ~~communicates~~ with the selected motion control device through the common driver interface of the software driver associated with ~~the~~ at least one ~~selected~~ motion control device.

Claim 79 (currently amended)

79. The system of claim 74, wherein the software system comprises a user interface that allows a user to ~~identify~~ select the at least one software driver associated with the motion control device.

Claim 80 (currently amended)

80. The system of claim 74, wherein the software system comprises a selection interface that allows the at least one software driver associated with the motion control device to be ~~identified~~ selected programmatically.

Claim 81 (currently amended)

81. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that motion data is sent to ~~sends data to the~~ at least one ~~selected~~ associated motion control device.

Claim 82 (currently amended)

82. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that data is received from at least one associated motion control device ~~receives data from the at least one selected motion control device.~~

Claim 83 (currently amended)

83. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device is controlled ~~controls the at least one selected motion control device.~~

Claim 84 (currently amended)

84. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device is monitored ~~monitors the at least one selected motion control device.~~

Claim 85 (currently amended)

85. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device is configured ~~configures the at least one selected motion control device.~~

Claim 86 (currently amended)

86. A system for communicating with a motion control device ~~selected from a group of motion control devices~~, comprising:

an application program comprising a ~~series set~~ function of motion software ~~functions~~ calls, wherein the application program is capable of requesting at least one motion control device to perform at least one motion operation ~~configured to operate the motion control device in a desired manner~~;

a plurality of software drivers ~~associated with the group of motion control devices~~, wherein at least one software driver is associated with the ~~selected~~ at least one motion control device;

a software system for ~~identifying~~ selecting the at least one software driver associated with the selected motion control device from the set of software drivers and communicating with the ~~selected~~ at least one motion control device based on the at least one ~~identified~~ selected software driver and the motion software functions called by the application program.

Claim 87 (original)

87. The system of claim 86, wherein each of the plurality of software drivers conforms to a common driver interface.

Claim 88 (currently amended)

88. The system of claim 87, wherein the common driver interface comprises a set of functions that are exposed to the software system by ~~each~~ at least one of the software drivers.

Claim 89 (currently amended)

89. The system of claim 87, wherein the software system communicates with the ~~selected~~ at least one motion control device through the common driver interface of the software driver associated with the ~~selected~~ at least one motion control device.

Claim 90 (currently amended)

90. The system of claim 87, wherein the application program communicates with ~~the selected at least one~~ motion control device through the common driver interface of the software driver associated with ~~the selected at least one~~ motion control device.

Claim 91 (currently amended)

91. The system of claim 86, wherein the software system comprises a user interface that allows a user to ~~identify~~ select the at least one software driver associated with the motion control device.

Claim 92 (currently amended)

92. The system of claim 86, wherein the software system comprises a selection interface that allows the at least one software driver associated with the motion control device to be ~~identified~~ selected programmatically.

Claim 93 (currently amended)

93. The system of claim 86, wherein at least one software driver is capable of causing motion data to be sent to at least one motion control device ~~the application program sends data to the at least one selected motion control device.~~

Claim 94 (currently amended)

94. The system of claim 86, wherein at least one software driver is capable of causing data to be received from at least one motion control device ~~the application program receives data from the at least one selected motion control device.~~

Claim 95 (currently amended)

95. The system of claim 86, wherein at least one software driver is capable of causing at least one motion control device to be controlled ~~the application program controls the at least one selected motion control device.~~

Claim 96 (currently amended)

96. The system of claim 86, wherein at least one software driver is capable of being used to monitor at least one motion control device ~~the application program monitors the at least one selected motion control device.~~

Claim 97 (currently amended)

97. The system of claim 86, wherein at least one software driver is capable of causing at least one motion control device to be configured ~~the application program configures the at least one selected motion control device.~~

Claim 98 (currently amended)

98. A method for communicating with a motion control device, comprising:
selecting a motion control device from a group of motion control devices;
~~identifying~~ selecting at least one software driver associated with the selected motion control device from a plurality of software drivers associated with the group of motion control devices; and
communicating with the selected motion control device based on the at least one ~~identified~~ selected software driver.

Claim 99 (currently amended)

99. The method of claim 98, wherein ~~identifying~~ selecting at least one software driver associated with the selected motion control device comprises:
receiving input from a user selecting a software driver; and
associating the selected software driver with the motion control device.

Claim 100 (original)

100. The method of claim 98, wherein communicating with the selected motion control device comprises monitoring the selected motion control device.

Claim 101 (original)

101. The method of claim 98, wherein communicating with the selected motion control device comprises controlling the selected motion control device.

Claim 102 (original)

102. The method of claim 98, wherein communicating with the selected motion control device comprises configuring the selected motion control device.

Claim 103 (original)

103. The method of claim 98, wherein communicating with the selected motion control device comprises controlling the movement of the selected motion control device based on function calls from an application program configured to operate the selected motion control device.

Claim 104 (currently amended)

104. A system for communicating with a motion control device selected from a group of motion control devices, comprising:

- a means for ~~identifying-selecting~~ at least one software driver associated with the selected motion control device from a plurality of software drivers associated with the group of motion control devices; and
- a means for communicating with the selected motion control device using the ~~identified-~~
selected software driver.

Claim 105 (original)

105. A system of claim 104, comprising a means for operating the selected motion control device such that the motion control device moves in a desired manner.

Claim 106 (original)

106. The system of claim 104, wherein each of the plurality of software drivers conforms to a common driver interface.

Claim 107 (original)

107. The system of claim 106, wherein the common driver interface comprises a set of functions that are exposed to the system by each of the software drivers.

Claim 108 (original)

108. The system of claim 106, wherein the means for communicating with the selected motion control device communicates with the selected motion control device through the common driver interface of the software driver associated with the selected motion control device.

Claim 109 (currently amended)

109. The system of claim 104, wherein the means for ~~identifying-selecting~~ at least one software driver associated with the selected motion control device comprises a user interface that allows a user to ~~identify-select~~ the at least one software driver associated with the motion control device.

Claim 110 (currently amended)

110. The system of claim 104, wherein the means for ~~identifying-selecting~~ at least one software driver associated with the selected motion control device comprises a selection interface that allows the at least one software driver associated with the motion control device to be ~~identified-selected~~ programmatically.

Claim 111 (currently amended)

111. The system of claim 1, wherein the ~~application-program~~software system communicates with the motion control component.

Claim 112 (currently amended)

112. The system of claim 1, wherein at least one motion operation is capable of causing motion data to be sent to at least one motion control device~~the motion control component sends data to the at least one selected motion control device.~~

Claim 113 (currently amended)

113. The system of claim 1, wherein at least one motion operation is capable of causing data to be received from at least one motion control device~~the motion control component receives data from the at least one selected motion control device.~~

Claim 114 (currently amended)

114. The system of claim 1, wherein at least one motion operation is capable of causing at least one motion control device to be controlled~~the motion control component controls the at least one selected motion control device.~~

Claim 115 (currently amended)

115. The system of claim 1, wherein at least one motion operation is capable of being used to monitor at least one motion control device~~the motion control component monitors the at least one selected motion control device.~~

Claim 116 (currently amended)

116. The system of claim 1, wherein at least one motion operation is capable of causing the motion control device to be configured~~the motion control component configures the at least one selected motion control device.~~

Claim 117 (currently amended)

117. The system of claim 10, wherein at least one motion operation is capable of causing motion data to be sent to at least one motion control device~~the software system sends data to the at least one selected motion control device.~~

Claim 118 (currently amended)

118. The system of claim 10, wherein at least one motion operation is capable of causing data to be received from at least one motion control device~~the software system receives data from the at least one selected motion control device.~~

Claim 119 (currently amended)

119. The system of claim 10, wherein at least one motion operation is capable of causing at least one motion control device to be controlled~~the software system controls the at least one selected motion control device.~~

Claim 120 (currently amended)

120. The system of claim 10, wherein at least one motion operation is capable of being used to monitor at least one motion control device~~the software system monitors the at least one selected motion control device.~~

Claim 121 (currently amended)

121. The system of claim 10, wherein at least one motion operation is capable of causing at least one motion control device to be configured~~the software system configures the at least one selected motion control device.~~

Claim 122 (currently amended)

122. The system of claim 18, wherein at least one motion operation is capable of causing motion data to be sent to at least one motion control device~~the software system sends data to the at least one selected motion control device.~~

Claim 123 (currently amended)

123. The system of claim 18, wherein at least one motion operation is capable of causing data to be received from at least one motion control device~~the software system receives data from the at least one selected motion control device.~~

Claim 124 (currently amended)

124. The system of claim 18, wherein at least one motion operation is capable of causing the motion control device to be controlled~~the software system controls the at least one selected motion control device.~~

Claim 125 (currently amended)

125. The system of claim 18, wherein at least one motion operation is capable of being used to monitor at least one motion control device~~the software system monitors the at least one selected motion control device.~~

Claim 126 (currently amended)

126. The system of claim 18, wherein at least one motion operation is capable of causing at least one motion control device to be configured~~the software system configures the at least one selected motion control device.~~

Claim 127 (currently amended)

127. The system of claim 26, wherein at least one motion operation is capable of causing motion data to be sent to at least one motion control device~~the software system sends data to the at least one selected motion control device.~~

Claim 128 (currently amended)

128. The system of claim ~~27~~26, wherein at least one motion operation is capable of causing data to be read from at least one motion control device~~the software system receives data from the at least one selected motion control device.~~

Claim 129 (reserved)**Claim 130 (currently amended)**

130. The system of claim ~~27~~26, wherein at least one motion operation is capable of causing at least one motion control device to be controlled~~the software system controls the at least one selected motion control device.~~

Claim 131 (currently amended)

131. The system of claim ~~27~~26, wherein at least one motion operation is capable of being used to monitor at least one motion control device~~the software system monitors the at least one selected motion control device.~~

Claim 132 (currently amended)

132. The system of claim ~~27~~26, wherein at least one motion operation is capable of causing at least one motion control device to be configured~~the software system configures the~~
~~at least one selected motion control device.~~

Claim 133 (new)

133. A system as recited in claim 1, wherein the software system comprises an application program.

Claim 134 (new)

134. A system as recited in claim 1, wherein the software system comprises a server component.

Claim 135 (new)

135. A system as recited in claim 1, in which the selection component comprises a user interface that allows a user to select the at least one motion control device.

Claim 136 (new)

136. A system as recited in claim 1, in which the selection component comprises a selection interface that allows the at least one motion control device to be selected programmatically.

Claim 137 (new)

137. A system as recited in claim 6, in which a definition of the common interface is acquirable from an operating system.

Claim 138 (new)

138. A system as recited in claim 6, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 139 (new)

139. A system as recited in claim 7, in which the motion component is capable of acquiring a definition of the common interface from an operating system.

Claim 140 (new)

140. A system as recited in claim 7, in which the motion component is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 141 (new)

141. A system as recited in claim 10, in which the selection component comprises a user interface that allows a user to select the at least one motion control device.

Claim 142 (new)

142. A system as recited in claim 10, in which the selection component comprises a selection interface that allows the at least one motion control device to be selected programmatically.

Claim 143 (new)

143. A system as recited in claim 10, in which more than one of the software drivers in the set of software drivers conforms to a common driver interface.

Claim 144 (new)

144. A system as recited in claim 15, in which a definition of the common interface is acquirable from an operating system.

Claim 145 (new)

145. A system as recited in claim 15, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 146 (new)

146. A system as recited in claim 16, in which the software system is capable of acquiring a definition of the common interface from an operating system.

Claim 147 (new)

147. A system as recited in claim 16, in which the software system is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 148 (new)

148. A system as recited in claim 23, in which a definition of the common interface is acquirable from an operating system.

Claim 149 (new)

149. A system as recited in claim 23, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 150 (new)

150. A system as recited in claim 24, in which the software system is capable of acquiring a definition of the common interface from an operating system.

Claim 151 (new)

151. A system as recited in claim 24, in which the software system is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 152 (new)

152. A system as recited in claim 31, in which a definition of the common interface is acquirable from an operating system.

Claim 153 (new)

153. A system as recited in claim 31, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 154 (new)

154. A system as recited in claim 32, in which the motion control component is capable of acquiring a definition of the common interface from an operating system.

Claim 155 (new)

155. A system as recited in claim 32, in which the motion control component is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 156 (new)

156. A system as recited in claim 38, in which a definition of the common interface is acquirable from an operating system.

Claim 157 (new)

157. A system as recited in claim 38, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 158 (new)

158. A system as recited in claim 39, in which motion software is capable of acquiring a definition of the common interface from an operating system.

Claim 159 (new)

159. A system as recited in claim 39, in which motion software is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 160 (new)

160. A system as recited in claim 49, in which the selector comprises a user interface that allows a user to select the at least one selectable motion control device.

Claim 161 (new)

161. A system as recited in claim 49, in which the selector comprises a selection interface that allows the at least one motion control device to be selected programmatically.

Claim 162 (new)

162. A system as recited in claim 49, in which the selectable software driver associated with the selectable motion control device is made accessible to the motion software by the selector.

Claim 163 (new)

163. A system as recited in claim 52, in which a definition of the common interface is acquirable from an operating system.

Claim 164 (new)

164. A system as recited in claim 52, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 165 (new)

165. A system as recited in claim 53, in which the motion software is capable of acquiring a definition of the common interface from an operating system.

Claim 166 (new)

166. A system as recited in claim 53, in which the motion software is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 167 (new)

167. The system of claim 62, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device moves an object in a desired manner.

Claim 168 (new)

168. A system as recited in claim 62, in which the selector comprises a user interface that allows a user to select the at least one selectable motion control device.

Claim 169 (new)

169. A system as recited in claim 62, in which the selector comprises a selection interface that allows the at least one motion control device to be selected programmatically.

Claim 170 (new)

170. A system as recited in claim 62, in which the selectable software driver, associated with the selectable motion control device, is made accessible to the motion software by the selector.

Claim 171 (new)

171. A system as recited in claim 64, in which a definition of the common interface is acquirable from an operating system.

Claim 172 (new)

172. A system as recited in claim 64, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 173 (new)

173. A system as recited in claim 65, in which the software system is capable of acquiring a definition of the common interface from an operating system.

Claim 174 (new)

174. A system as recited in claim 65, in which the software system is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 175 (new)

175. A system as recited in claim 74, in which the selector comprises a user interface that allows a user to select at least one motion control device.

Claim 176 (new)

176. A system as recited in claim 74, in which the selector comprises a selection interface that allows programmatic selection of at least one motion control device.

Claim 177 (new)

177. A system as recited in claim 74, in which the selectable software driver, associated with the selectable motion control device, is made accessible to the motion software by the selector.

Claim 178 (new)

178. The system of claim 74, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device moves an object in a desired manner.

Claim 179 (new)

179. A system as recited in claim 76, in which a definition of the common interface is acquirable from an operating system.

Claim 180 (new)

180. A system as recited in claim 76, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 181 (new)

181. A system as recited in claim 77, in which the software system is capable of acquiring a definition of the common interface from an operating system.

Claim 182 (new)

182. A system as recited in claim 77, in which the software system is capable of acquiring a definition of the common interface from a persistent storage medium.

Claim 183 (new)

183. A system as recited in claim 86, in which the selector comprises a user interface that allows a user to select at least one motion control device.

Claim 184 (new)

184. A system as recited in claim 86, in which the selector comprises a selection interface that allows programmatic selection of at least one motion control device.

Claim 185 (new)

185. A system as recited in claim 86, in which the selectable software driver, associated with the selectable motion control device, is made accessible to the software system by the selector.

Claim 186 (new)

186. The system of claim 86, wherein the software system is capable of communicating with at least one selected software driver such that at least one motion control device moves an object in a desired manner.

Claim 187 (new)

187. A system as recited in claim 87, in which a definition of the common interface is acquirable from an operating system.

Claim 188 (new)

188. A system as recited in claim 87, in which a definition of the common interface is acquirable from a persistent storage medium.

Claim 189 (new)

189. A system as recited in claim 88, in which the software system is capable of acquiring a definition of the common interface from an operating system.

Claim 190 (new)

190. A system as recited in claim 88, in which the software system is capable of acquiring a definition of the common interface from a persistent storage

Claim 191 (new)

191. A method as recited in claim 98, further comprising the step of configuring an application program to generate at least one function call, in which the step of communicating with the selected motion control device based on the at least one selected software driver comprises the step of operating the motion control device to control movement of an object based on the at least one function call generated by the application program and the selected software driver.

Claim 192 (new)

192. A system of claim 104, comprising a means for operating the selected motion control device such that the motion control device moves an object in a desired manner.